

FIGURE 1

SEQ ID NO: 1

Xaa₁-Xaa₂-Xaa₃-Cys₄-Xaa₅-Xaa₆-Xaa₇-Cys₈-Xaa₉-Xaa₁₀-Gly₁₁-Xaa₁₂-Cys₁₃-Xaa₁₄-Xaa₁₅-
Xaa₁₆-Cys₁₇-Xaa₁₈-Xaa₁₉-R

SEQ ID NO: 2

Arg-Arg Trp-Cys-Tyr-Arg-Lys-Cys-Tyr-Lys-Gly-Tyr-Cys-Tyr-Arg-Lys-Cys-Arg

SEQ ID NO: 3

Lys-Trp-Ala-Phe-Arg-Val-Ala-Tyr-Arg-Gly-Ile-Ala-Tyr-Arg-Arg-Ala-Arg

SEQ ID NO: 4 (GenBank Accession No. AAH20057.1)

MNLQPIFWIGLISSVCCVFAQTDENRCLKANAKSCGECIQAGPN
CGWCTNSTFLQEGMPTSARCDLLEALKKKKGCPDDIENPRGSKDIKKKNVTNRSKGT
AEKLPEDITQIQPQQLVLRRLRSGEPTFTLKFKAEDYPIDLYYLMDLSSYMKDDLE
NVKSLGTDLMNEMRRITSDFRIGFGSFVEKTVMPYISTTPAKLRNPCTSEQNCTSPFS
YKNVLSLTNKGVEFVNLVGKQRIQGNLDSPEGGFDAIMQVAVCGSLIGWRNVTRLLVF
STDAGFHFAGDGKLGGLVLPNDGQCHLENNMYTMSHYDYDPSIAHLVQKLSENNIQT
FAVTEEFQPVYKELKNLIPKSAVGTLSANSSNVIQLIIDAYNSLSSEVILENGKLSEG
VTISYKSYCKNGVNGTGENGRKCSNISIGDEVQFEISITSNKPCKDSDFSFKIRPLGF
TEEEVILQYICECECQSEGIPEPKCHEGNGTFECGACRCNEGRVGRHCECSTDEVN
SEDMDAYCRKENSSEICSNNGECVCGQCVCVRKRDNTNEIYSGKFCECDNFNCDRNL
ICGGNGVCKCRVCECNPNYTGSA CDCSLDTSTCEASNGQICNGRGICECGVCKCTDPK
FQGQTCCEMCQTCLGVCAEHKECVQCRAFNKGEKKDTCTQECSEYFNITKVESRDKLPQP
VQPDVSHCKEKDVDDCWFFYFTYSVNGNNEVMVHVVENPECPTGPDIIPIVAGVVAGI
VLIGLALLLIWKLMLMIHDRREFAKFEKEKMNKWDGTGENPIYKSAVTTVVNPKYEGK

SEQ ID NO: 5 (GenBank Accession No. BC020057)

1 agcgggagtc gcggaacagc aggcccgagc ccaccgcgcc gggccccgga cgccgcgcgg
61 aaaagatgaa tttaacaacca attttctgga ttggactgat cagttcagtt tgctgtgtgt
121 ttgctcaaac agatgaaaat agatgtttta aagcaaatgc caaatcatgt ggagaatgta
181 tacaagcagg gccaaattgt ggggtgtgca caaatcaac atttttacag gaaggaatgc
241 ctactttctgc acgatgtgat gatttagaag ccttaaaaaa gaaggggtgc cctccagatg
301 acatagaaaa tcccagaggc tccaaagata taaagaaaaa taaaaatgta accaaccgta
361 gcaaaggaac agcagagaag ctcaagccag aggatattac tcagatccaa ccacagcagt
421 tggtttttgcg attaatgata ggggagccac agacatttac attaaaattc aagagagctg
481 aagactatcc cattgacctc tactacctta tggacctgtc ttactcaatg aaagacgatt
541 tggagaatgt aaaaagtctt ggaacagatc tgatgaatga aatgaggagg attacttcgg
601 acttcagaat tggatttggc tcatttgtgg aaaagactgt gatgccttac attagcacia
661 caccagctaa gctcaggaac ccttgcaaaa gtgaacagaa ctgcaccagc ccatttagct
721 acaaaaaatgt gctcagtctt actaataaag gagaagtatt taatgaactt gttggaaaac
781 agcgcataatc tggaaatttg gattctccag aaggtgggtt cgatgccatc atgcaagttg
841 cagctttgtgg atcactgatt ggctggagga atgttacacg gctgctgggt tttccacag
901 atgcggggtt tcaacttggc ggagatggga aacttgggtg cattgtttta ccaaatgatg
961 gacaatgtca cctggaaaat aatatgtaca caatgagcca ttattatgat tatccttcta
1021 ttgctcacct tgtccagaaa ctgagtgaata ataattttca gacaattttt gcagttactg
1081 aagaattttca gcctgtttac aaggagctga aaaacttgat ccctaagtca gcagtaggaa
1141 cattatctgc aaattctagc aatgtaatc agttgatcat tgatgcatac aattcccttt
1201 cctcagaagt ctttttggaa aacggcaaat tgtcagaagg agtaacaata agttacaaat
1261 ctactgcaa gaacgggggtg aatggaacag gggaaaatgg aagaaaatgt tccaatattt
1321 ccattggaga tgaggttcaa tttgaaatta gcataacttc aaataagtgt ccaaaaaagg
1381 attctgacag ctttaaaatt aggcctctgg gctttacgga ggaagtagag gttattcttc

FIGURE 1 (continued)

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1441 agtacatctg tgaatgtgaa tgccaaagcg aaggcatccc tgaaagtcct aagtgtcatg
1501 aaggaaatgg gacatttgag tgtggcgcg gtgagtgcaa tgaagggcgt gttggtagac
1561 attgtgaatg cagcacagat gaagttaaca gtgaagacat ggatgcttac tgcaggaaag
1621 aaaacagttc agaaatctgc agtaacaatg gagagtgcgt ctgcggacag tgtgtttgta
1681 ggaagagggg taatacaaat gaaattttat ctggcaaatt ctgcgagtgt gataatttca
1741 actgtgatag atccaatggc ttaattttgt gaggaatgg tgtttgcaag tgcgtgtgt
1801 gtgagtgcga ccccaactac actggcagtg catgtgactg ttctttggat actagtactt
1861 gtgaagccag caacggacag atctgcaatg gccggggcat ctgtgagtgt ggtgtctgta
1921 agtgtacaga tccgaagttt caagggcaaa cgtgtgagat gtgtcagacc tgccttgggtg
1981 tctgtgctga gcataaagaa tgtgttcagt gcagagcctt caataaagga gaaaagaaag
2041 acacatgcac acaggaatgt tcctatttta acattacca ggtagaaagt cgggacaaat
2101 taccacagcc ggtccaacct gatcctgtgt ccattgttaa ggagaaggat gttgacgact
2161 gttgggttcta ttttacgtat tcagtgaatg ggaacaacga ggcatgggtt catgttgggtg
2221 agaatccaga gtgtccact ggtccagaca tcattccaat tgtagctggt gtggttgcgtg
2281 gaattgttct tattggcctt gcattactgc tgatatggaa gcttttaatg ataattcatg
2341 acagaaggga gtttgctaaa tttgaaaagg agaaaatgaa tgccaaatgg gacacgggtg
2401 aaaatcctat ttataagagt gccgtaacaa ctgtggtcaa tccgaagtat gagggaaaat
2461 gagtactgcc cgtgcaaatc ccacaacact gaatgcaaag tagcaatttc catagtcaca
2521 gttaggtagc tttagggcaa tattgccatg gttttactca tgtgcagggt ttgaaaatgt
2581 acaatatgta taatttttaa aatgttttat tattttgaaa ataattgtgt aattcatgcc
2641 agggactgac aaaagacttg agacaggatg gttattcttg tcagctaagg tcacattgtg
2701 cttttttgac cttttcttcc tggactattg aaatcaagct tattggatta agtgatattt
2761 ctatagcgat tgaaagggca atagttaaag taatgagcat gatgagagt tctgttaatc
2821 atgtattaaa actgattttt agctttacaa atatgtcagt ttgcagttat gcagaatcca
2881 aagtaaattgt cctgctagct agttaaggat tgttttaaat ctgttatttt gctatttgcc
2941 tgttagacat gactgatgac atatctgaaa gacaagtatg ttgagagtgt ctggtgtaaa
3001 atacgtttga aatagttgat ctacaaaggc catgggaaaa attcagagag ttaggaagga
3061 aaaaccaata gctttaaaac ctgtgtgcca ttttaagagt tacttaatgt ttggttaactt
3121 ttatgccttc actttacaaa ttcaagcctt agataaaaaga accgagcaat tttctgctaa
3181 aaagtccttg atttagcact atttacatac aggccatact ttacaaagta tttgctgaat
3241 ggggaccttt tgagttgaat ttattttatt atttttattt tgtttaatgt ctggtgcttt
3301 ctatcacctc ttctaactct ttaattgtatt tgtttgcaat tttggggtaa gactttttt
3361 atgagtactt tttctttgaa gtttttagcg tcaatttgcc tttttaatga acatgtgaag
3421 ttatactgtg gctatgcaac agctctcacc tacgcgagtc ttactttgag ttagtgccat
3481 aacagaccac tgtatgttta cttctcacca tttgagttgc ccactctgtt tcacactagt
3541 cacattcttg ttttaagtgc ctttagtttt aacagttcac tttttacagt gctatttact
3601 gaagttattt attaaatatg cctaaaatac ttaaatcgga aaaaaaaaaa aaaaaa
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SEQ ID NO: 6 (GenBank Accession No. NP_000600)

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1 mnakvvvvlv lvltalclsd gkpvslysc pcrffeshva ranvkhkll ntpncalqiv
61 arlknmrqv cidpkkwiq eylekalnkr fkm
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SEQ ID NO: 7 (GenBank Accession No. NM_000609)

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1 tctcgtcag ccgcatgccc cgtcggcgt ccggcccccg acccgtgctc gtccgcccgc
61 ccgccccccc gcccgccca tgaacgccaa ggtcgtgggtc gtgctgggtc tctgtctgac
121 cgcgctctgc ctcagcgacg ggaagcccg cagcctgagc tacagatgcc catgccgatt
181 cttcgaaagc catgttgcca gagccaacgt caagcatctc aaaattctca aactccaaa
241 ctgtgccctt cagattgtag cccggctgaa gaacaacaac agacaagtgt gcattgacct
301 gaagctaaag tggattcagg agtacctgga gaaagcttta aacaagagggt tcaagatgtg
361 agagggtcag acgcctgagg aacccttaca gtaggagccc agctctgaaa ccagtgttag
421 ggaagggcct gccacagcct cccctgccag ggcagggccc caggcattgc caagggcttt
481 gttttgcaca ctttgccata ttttcaccat ttgattatgt agcaaaatac atgacattta
541 tttttcattt agtttgatta ttcatgttca ctggcgacac gtagcagctt agactaaggc
601 cattattgta cttgccttat tagagtgtct ttccacggag ccactcctct gactcagggc
661 tcctgggttt tgtattctct gagctgtgca ggtggggaga ctgggctgag ggagcctggc
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FIGURE 1 (continued)

721 cccatgggtca gccctaggggt ggagagccac caagagggac gcctgggggt gccaggacca
781 gtcaacctgg gcaaagccta gtgaaggctt ctctctgtgg gatgggatgg tggagggcca
841 catggggagg tcacccctt ctccatccac atgggagccg ggtctgcctc tctctggagg
901 gcagcagggc taccctgagc tgaggcagca gtgtgaggcc agggcagagt gagaccagc
961 cctcatcccg agcacctcca catcctccac gttctgtctc tcattctctg tctcatccat
1021 catcatgtgt gtccacgact gtctccatgg ccccgcaaaa ggactctcag gaccaaagct
1081 ttcatgtaaa ctgtgcacca agcaggaaat gaaaatgtct tgtgttacct gaaaacactg
1141 tgcacatctg tgtcttgtgt ggaatattgt ccattgtcca atcctatgtt tttgttcaaa
1201 gccagcgtcc tcctctgtga ccaatgtctt gatgcatgca ctgttcccc tgtgcagccg
1261 ctgagcgagg agatgtcct tgggccctt gagtgcagtc ctgatcagag cctgtgtcct
1321 ttggggtgaa ctaccttgg tccccactg atcacaaaaa catggtgggt ccatgggcag
1381 agcccaaggg aattcggtgt gcaccagggt tgacccaga ggattgtgc cccatcagt
1441 ctccctcaca tgtcagtacc ttcaataagt ggccaagccc agcactgtct gaggaaaaa
1501 agcattcaca acttgtttt gggtttttaa acccagtcca caaaataacc aatcctggac
1561 atgaagattc tttcccaatt cacatctaac ctcatcttct tcaccatttg gcaatgccat
1621 catctcctgc cttcctcctg ggccctctct gctctgctg tcacctgtgc ttctggccct
1681 tcccacagga catttctcta agagaacaat gtgctatgtg aagagtaagt caacctgcct
1741 gacatttgga gtgttcccct cccactgagg gcagtcgata gagctgtatt aagccactta
1801 aaatgttcac ttttgacaaa ggcaagcact tgtgggtttt tgttttgtt ttcattcagt
1861 cttacgaata cttttgccct ttgattaaag actccagtta aaaaaattt taatgaagaa
1921 agtggaaaac aaggaagtca aagcaaggaa actatgtaac atgtaggaag taggaagtaa
1981 attatagtga tgtaatcttg aattgtaact gttcgtgaat ttaataatct gtagggtaat
2041 tagtaacatg tgtaagtat tttcataagt attccaaatt ggagcttcat ggcagaaggc
2101 aaacccatca acaaaaattg tcccttaaac aaaaattaaa atcctcaatc cagctatgtt
2161 atattgaaaa aatagagcct gagggatctt tactagtatt aaagatacag aactctttca
2221 aaaccttttg aaattaacct ctactatac cagtataatt gagttttcag tggggcagtc
2281 attatccagg taatccaaga tattttaaaa tctgtcacgt agaacttgga tgtacctgcc
2341 cccaatccat gaaccaagac cattgaattc ttggttgagg aaacaaacat gaccctaaat
2401 cttgactaca gtcaggaaaag gaatcatttc tatttctcct ccatgggaga aaatagataa
2461 gagtagaaac tgcagggaaa attatttgca taacaattcc tctactaaca atcagctcct
2521 tcctggagac tgcccagcta aagcaatatg catttaaata cagtcttcca tttgcaaggg
2581 aaaagtctct tgtaatccga atctctttt gctttogaac tgctagtcaa gtgcgtccac
2641 gaagctgtta ctaggatcc ctcatctgtc cctccgggac ctggtgctgc ctctacctga
2701 cactcccttg ggctccctgt aacctcttca gaggccctcg ctgccagtc tgtatcagga
2761 cccagaggaa ggggccagag gctcgttgac tggctgtgtg ttgggattga gtctgtgcca
2821 cgtgtatgtg ctgtggtgtg tccccctctg tccaggcact gagataccag cgaggaggct
2881 ccagagggca ctctgcttgt tattagagat tacctcctga gaaaaaagct tccgcttgga
2941 gcagaggggc tgaatagcag aaggttgcac ctcccccaac cttagatgtt ctaagtcttt
3001 ccattggatc tcattggacc cttccatgggt gtgatcgtct gactggtgtt atcacctgtg
3061 gctccctgac tgggagttga tcgcctttcc cagggtgtac acccttttcc agctggatga
3121 gaatttgagt gctctgatcc ctctacagag ctccctgac tcattctgaa ggagcccat
3181 tcctgggaaa tattccctag aaacttccaa atccccaaag cagaccactg ataaaacct
3241 gtagaaaaat tgttattttg caacctcgct ggactctcag tctctgagca gtgaatgatt
3301 cagtgttaaa tgtgatgaat actgtatttt gtattgtttc aagtgcact cccagataat
3361 gtgaaaatgg tccaggagaa ggccaattcc tatacgagc gtgcttttaa aaataaataa
3421 gaaacaactc tttgagaaac aacaatttct actttgaagt cataccaatg aaaaaatgta
3481 tatgacttta taattttcct aataaagttc tgtactcaa tgta

SEQ ID NO: 8 (GenBank Accession No. AAH55419.1)

MAWEARREPGPRRAAVRETVMLLLCLGVPTGRPYNVDTESALLY
QGPHNTLFGYSVVLHSHGANRWLLVGAPTANWLANASVINPGAIYRCRIGKNPGQTCE
QLQLGSPNGEPCGKTCLEERDNQWLGVTLRQPGENGSIIVTCGHRWKNIFYIKNENKL
PTGGCYGVPPDLRTELSKRIAPCYQGSISKYRART

SEQ ID NO: 9 (GenBank Accession No. BC055419)

1 gggggctctt gctgagccca gagccatccc gcgctctgcg ggctgggagg cccggggccag

FIGURE 1 (continued)

61 gacgcgagtc ctgcgcagcc gaggttcccc agcgccccct gcagccgcgc gtaggcagag
121 acggagcccc gccctgcgcc tccgcaccac gcccgggacc ccaccagcg gcccgtagcc
181 ggagaagcag cgcgagcacc cgaagctccc ggctggcgcc agaaaccggg agtggggccg
241 ggcgagtgcg cggcatccca ggccggcccc aacgctccgc ccgcggtggg ccgacttccc
301 ctctctcttc ctctctctct cctttagccc gctggcgccg gacacgctgc gcctcatctc
361 ttggggcggt cttccccggt ggccaaccgt cgcaccccg gcaactttgg ggtagtggcc
421 gtttagtggt gaatgttccc caccgagagc gcatggcttg ggaagcgagg cgcgaaccg
481 gccccgaag ggccgccgtc cgggagacgg tgatgctgtt gctgtgcctg ggggtcccga
541 ccggccgccc ctacaacgtg gacactgaga gcgcgctgct ttaccagggc cccacaaca
601 cgctgttcgg ctactcggtc gtgctgcaca gccacggggc gaaccgatgg ctccatagtg
661 gtgcgcccac tgccaactgg ctgcaccaac cttcagtgat caatcccggg gcgatttaca
721 gatgcaggat cggaaagaat cccggccaga cgtgcgaaca gctccagctg ggtagcccta
781 atggagaacc ttgtggaaag acttggtttg aagagagaga caatcagtg ttgggggtca
841 cactttccag acagccagga gaaaatggat ccacgtgac ttgtgggcat agatggaaaa
901 atatatatta cataaagaat gaaaataagc tccccactgg tggttgctat ggagtgcgcc
961 ctgattttacg aacagaactg agtaaaagaa tagctccgtg ttatcaaggt agcatcagca
1021 agtacagagc taggacataa cagaagttag cagaattggg gtgaatgtca acagagcatg
1081 tcagaggata tctgcagcaa aactaaaatc caacaatgcg tctttaggag ctaagaaaca
1141 tatgaatgca aattcataat tttctaacca ccctcactct caaaaaaaaaa tccctcagca
1201 cgcaaagaaa aattttattg gttggcaaaa ctttggccaa gtattttgagt tcaattatgg
1261 gtgctaataa gactttggtc tttcttctct ggaatgtgat gtcacagagc agcttatatt
1321 acatatattc ctattttgcc ttcggatacc caaaagataa aaaagtgaat attgattctc
1381 agttgcaata aaactcagtc ttgatttctg caaaaaaaaaa aaaaaaa

SEQ ID NO: 10 (GenBank Accession No. AAH20968.1)

MEGISIYTSNYTEEMSGSDYDSMKEPCFREENANFNKIFLPTI
YSIIFLTGIVGNGLVILVMGYQKKLRSM TDKYRLHLSVADLLFVITLPFWAVDAVANW
YFGNFLCKAVHVIYTVNLYSSVLILAFISLD RYLAIVHATNSQRPRKLLAEKVYVGV
WIPALLLTIPDFIFANVSEADDRYICDRFY PNDLWVVVFQFQHIMVGLILPGIVILSC
YCIISKLSHSGKHQKRKALKTTVILILAF FACLWLPYYIGISIDSFILLEI IKQCEF
ENTVHKWISITEALAFFHCCLNPILYAF LGAKFKTSAQHALTSVSRGSSLKILSKGKR
GGHSSVSTESSESSFHSS

SEQ ID NO: 11 (GenBank Accession No. BC020968)

1 ccgagggcct gagggtcca gtagccaccg catctggaga accagcggtt accatggagg
61 ggatcagtat atacacttca gataactaca ccgaggaaat gggctcaggg gactatgact
121 ccatgaagga accctgtttc cgtgaagaaa atgctaattt caataaaatc ttctgcccc
181 ccatctactc catcatcttc ttaactggca ttgtgggcaa tggattggtc atcctggta
241 tgggttacca gaagaaactg agaagcatga cggacaagta caggctgcac ctgtcagtg
301 ccgacctcct ctttgtcatc acgcttccct tctgggcagt tgatgccgtg gcaaaactgt
361 actttgggaa ctctctatgc aaggcagtc atgtcatcta cacagtcaac ctctacagca
421 gtgtcctcat cctggccttc atcagctctg accgctacct ggccatcgtc cagccacca
481 acagtcagag gccaaaggaag ctgttggctg aaaaggtggg ctatgttggc gtctggatcc
541 ctgccctcct gctgactatt cccgacttca tctttgccaa cgtcagtgag gcagatgaca
601 gatatatctg tgaccgcttc taccccaatg acttgtgggt ggttgtgttc cagtttcagc
661 acatcatggg tggccttata ctgcctggta ttgtcatcct gtctgtctat tgcattatca
721 tctccaagct gtcacactcc aaggggcacc agaagcgcaa ggccctcaag accacagtca
781 tctcatcctt ggctttcttc gcctgttggc tgccttacta cattgggatc agcatcgact
841 ccttcatcct cctggaaatc atcaagcaag ggtgtgagtt tgagaacact gtgcacaagt
901 ggatttccat caccgaggcc ctagctttct tccactgttg tctgaacccc atcctctatg
961 ctttccttgg agccaaatct aaaacctctg cccagcacgc actcacctct gtgagcagag
1021 ggtccagcct caagatcctc tccaaaggaa agcgaggtgg acattcatct gtttccactg
1081 agtctgagtc ttcaagtttt cactccagct aacacagatg taaaagactt tttttatatac
1141 gataaataac ttttttttaa gttacacatt tttcagatat aaaagactga ccaatttgt
1201 acagttttta ttgcttgggt gatttttctg ttgtgttct ttagtttttg tgaatttaa
1261 ttgacttatt tatataaatt ttttttgggt catattgatg tgtgtctagg caggacctgt

FIGURE 1 (continued)

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1321 ggccaagttc ttagttgctg tatgtctcgt ggtaggactg tagaaaaggg aactgaacat
1381 tccagagcgt gtagtgaatc acgtaaagct agaaatgatc cccagctggt tatgcataga
1441 taatctctcc attcccgtgg aacgtttttc ctgttcttaa gacgtgattt tgctgtagaa
1501 gatggcactt ataaccaaaag cccaaagtgg tatagaaatg ctggtttttc agttttcagg
1561 agtggggttg tttcagcacc tacagtgtac agtcttgtat taagttgtta ataaaagtac
1621 atgttaaact taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa
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